

IN THE CLAIMS:

Please amend claims 1-9 so that the claims read as follows:

- Sub  
C1
- B1
1. (Amended) An interrogation system comprising:  
a transmitting device which transmits an inquiry to a responder device in the form of directionally specific single electromagnetic pulses or short bursts of electromagnetic pulses which are staggered with different distances between said pulses or short bursts of pulses in order to transmit coded information,  
a responder device having a sensor for detecting such electromagnetic pulses, an evaluation unit for processing such detected pulses and a transmitter for sending back a response to the transmitting device's inquiry,  
wherein said transmitting device further contains a transmitting device sensor for detecting a response from said responder device.
  2. (Amended) The interrogation system in accordance with claim 1, wherein said transmitting device has a control circuit and an antenna for transmitting its inquiry signals.
  3. (Amended) The interrogation system in accordance with claim 2, wherein the antenna is integrated into said control circuit.
  4. (Amended) The interrogation system in accordance with claim 1, wherein said directional specificity is achieved with an angle of a radiated lobe below 50 mrad.
  5. (Amended) The interrogation system in accordance with claim 4, wherein said responder generates staggered information pulses with different distances between said pulses corresponding to said staggered transmitting device pulses.